

Appl. No. 10/828,745  
Amdt. dated February 16, 2007  
Reply to Office action of November 17, 2006

**Listing of Claims:**

1-30. (canceled)

31. (currently amended) A system for measuring ~~relative~~ position of points fixed or slow-moving ~~points~~ relative to each other and in close proximity comprising:

- at least one GNSS receiver;
- a first antenna in operable communication with said GNSS receiver and configured to receive a first plurality of satellite signals;
- a second antenna in operable communication with one of said GNSS receiver or a second GNSS receiver and configured ~~to~~ configured to receive a second plurality of satellite signals;
- said antennas having known locations relative to each other;
- an orientation device adapted for determining a relative orientation of said system based on the locations of said antennas relative to each other;
- a clock utilized by said one or more receivers; and
- a position solution processor adapted for determining an earth-fixed ~~(absolute)~~-position utilizing signals from at least three-unique satellites, (1) at least one of said satellite signals is received by said first antenna and not by said second antenna, said signals being received by both of said antennas and said processor using ~~unknowns~~ corresponding to X and Y coordinates and said clock for determining a position solution. (2) an input signal from said clock and (3) an input signal from said orientation device.

32. (previously presented) The system according to claim 31, which includes:

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a second receiver connected to said second antenna.

33. (previously presented) The system according to claim 31, which includes:  
one of said antennas having an earth-fixed (absolute) location; and  
the location of said other antenna being determined from the location of said one antenna  
and the orientation of said system.

34. (previously presented) The system according to claim 31 wherein a  
common clock is shared by said receivers.